



SEQUENCE LISTING

<110> ABRIGNANI, SERGIO  
GRANDI, GUIDO

<120> HEPATITIS C RECEPTOR PROTEIN CD81

<130> 0366.103 / 2300-0366

<140> 09/509,612

<141> 2000-03-29

<160> 21

<170> PatentIn Ver. 2.0

<210> 1

<211> 49

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:  
oligodeoxynucleotides

<400> 1

ggcggggggtg gatccggggg tggaggctcg agctttgtca acaaggacc

49

<210> 2

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: peptide

<400> 2

Phe Val Asn Lys Asp

1

5

<210> 3

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:  
oligodeoxynucleotides

<400> 3

ccccaagctt tcacagcttc ccggagaaga ggtcatcg

38

<210> 4

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<211> 8  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: peptide

<400> 4  
Leu Lys Gly Ser Phe Leu Asp Asp  
1 5

<210> 5  
<211> 41  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
oligodeoxynucleotides

<400> 5  
caaaaggaat tctatttgtc aacaaggacc agatcgccaa g 41

<210> 6  
<211> 9  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: peptide

<400> 6  
Phe Val Asn Lys Asp Gln Ile Ala Lys  
1 5

<210> 7  
<211> 47  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:  
oligodeoxynucleotides

<400> 7  
cccccaagtt tcaatgatga tgatgatgat gcagttcccc ggagaag 47

<210> 8  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: peptide  
  
<400> 8  
His His His His His Leu Lys Gly Ser Phe  
1 5 10  
  
<210> 9  
<211> 20  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:  
oligodeoxynucleotides  
  
<400> 9  
cggttccgca gaccactatg 20  
  
<210> 10  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:  
oligodeoxynucleotides  
  
<400> 10  
tcttcacgca gaaaggctct a 21  
  
<210> 11  
<211> 23  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence:  
oligodeoxynucleotide  
  
<400> 11  
tgagtgtcgt gcagcctcca gga 23  
  
<210> 12  
<211> 357  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence: Human EC2  
fragment cloned into pThio-His C  
  
<400> 12

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gagttcctcg acgctaacct ggccggctct ggatccggtg atgacgatga caaggtacct 60  
ggcatgctga gctcgagctt tgtcaacaag gaccagatcg ccaaggatgt gaagcagtcc 120  
tatgaccagg ccctacagca ggccgtggtg gatgatgacg ccaacaacgc caaggctgtg 180  
gtgaagacct tccacgagac gcttgactgc tgtggctcca gcacactgac tgcttgacc 240  
acctcagtgc tcaagaacaa tttgtgtccc tcggcagca acatcatcag caacctcttc 300  
aaggaggact gccaccagaa gatcgatgac ctcttcgg ggaagctgtg aaagctt 357

<210> 13  
<211> 116  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Deduced amino acid sequence of EC2 fragment

<400> 13  
Glu Phe Leu Asp Ala Asn Leu Ala Gly Ser Gly Ser Gly Asp Asp Asp  
1 5 10 15  
  
Asp Lys Val Pro Gly Met Leu Ser Ser Ser Phe Val Asn Lys Asp Gln  
20 25 30  
  
Ile Ala Lys Asp Val Lys Gln Phe Tyr Asp Gln Ala Leu Gln Gln Ala  
35 40 45  
  
Val Val Asp Asp Asp Ala Asn Asn Ala Lys Ala Val Val Lys Thr Phe  
50 55 60  
  
His Glu Thr Leu Asp Cys Cys Gly Ser Ser Thr Leu Thr Ala Leu Thr  
65 70 75 80  
  
Thr Ser Val Leu Lys Asn Asn Leu Cys Pro Ser Gly Ser Asn Ile Ile  
85 90 95  
  
Ser Asn Leu Phe Lys Glu Asp Cys His Gln Lys Ile Asp Asp Leu Phe  
100 105 110  
  
Ser Gly Lys Leu  
115

<210> 14  
<211> 348  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Nucleotide sequence of EC20His6 fragment cloned into pGEX-KG

<400> 14  
ctgggtccgc gtggatcccc gggatattcc ggtgggtggtg gtggatattct atttgtcaac 60  
aaggaccaga tcgccaagga tgtgaagcag ttctatgacc agggccctaca gcaggccgtg 120

gtggatgatg acgccaacaa cgccaaggct gtggtaaga cttccacga gacgcttgc 180  
tgctgtggct ccagcacact gactgcttg accacctcag tgctcaagaa caatttgtgt 240  
ccctcgggca gcaacatcat cagcaacctc ttcaaggagg actgccacca gaagatcgat 300  
gacctttct ccggaaagct gcatcatcat catcatcatt gaaagctt 348

<210> 15  
<211> 113  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Deduced amino acid sequence of EC2-His 6 fragment

<400> 15  
Leu Val Pro Arg Gly Ser Pro Gly Ile Ser Gly Gly Gly Gly Ile  
1 5 10 15

Leu Phe Val Asn Lys Asp Gln Ile Ala Lys Asp Val Lys Gln Phe Tyr  
20 25 30

Asp Gln Ala Leu Gln Gln Ala Val Val Asp Asp Asp Ala Asn Asn Ala  
35 40 45

Lys Ala Val Val Lys Thr Phe His Glu Thr Leu Asp Cys Cys Gly Ser  
50 55 60

Ser Thr Leu Thr Ala Leu Thr Thr Ser Val Leu Lys Asn Asn Leu Cys  
65 70 75 80

Pro Ser Gly Ser Asn Ile Ile Ser Asn Leu Phe Lys Glu Asp Cys His  
85 90 95

Gln Lys Ile Asp Asp Leu Phe Ser Gly Lys Leu His His His His His  
100 105 110

His

<210> 16  
<211> 236  
<212> PRT  
<213> Pan troglodytes

<400> 16  
Met Gly Val Glu Gly Cys Thr Lys Cys Ile Lys Tyr Leu Leu Phe Val  
1 5 10 15

Phe Asn Phe Val Phe Trp Leu Ala Gly Gly Val Ile Leu Gly Val Ala  
20 25 30

Leu Trp Leu Arg His Asp Pro Gln Thr Thr Asn Leu Leu Tyr Leu Glu  
35 40 45

Leu Gly Asp Lys Pro Ala Pro Asn Thr Phe Tyr Val Gly Ile Tyr Ile

50	55	60	
Leu Ile Ala Val Gly Ala Val Met Met Phe Val Gly Phe Leu Gly Cys			
65	70	75	80
Tyr Gly Ala Ile Gln Glu Ser Gln Cys Leu Leu Gly Thr Phe Phe Thr			
85	90	95	
Cys Leu Val Ile Leu Phe Ala Cys Glu Val Ala Ala Gly Ile Trp Gly			
100	105	110	
Phe Val Asn Lys Asp Gln Ile Ala Lys Asp Val Lys Gln Phe Tyr Asp			
115	120	125	
Gln Ala Leu Gln Gln Ala Val Val Asp Asp Asp Ala Asn Asn Ala Lys			
130	135	140	
Ala Val Val Lys Thr Phe His Glu Thr Leu Asp Cys Cys Gly Ser Ser			
145	150	155	160
Thr Leu Thr Ala Leu Thr Thr Ser Val Leu Lys Asn Asn Leu Cys Pro			
165	170	175	
Ser Gly Ser Asn Ile Ile Ser Asn Leu Phe Lys Glu Asp Cys His Gln			
180	185	190	
Lys Ile Asp Asp Phe Phe Ser Gly Lys Leu Tyr Leu Ile Gly Ile Ala			
195	200	205	
Ala Ile Val Val Ala Val Ile Met Ile Phe Glu Met Ile Leu Ser Met			
210	215	220	
Val Leu Cys Cys Gly Ile Arg Asn Ser Ser Val Tyr			
225	230	235	
<210> 17			
<211> 236			
<212> PRT			
<213> Cercopithecus aethiops			
<400> 17			
Met Gly Val Glu Gly Cys Thr Lys Cys Ile Lys Tyr Leu Leu Phe Val			
1	5	10	15
Phe Asn Phe Val Phe Trp Leu Ala Gly Gly Val Ile Leu Gly Val Ala			
20	25	30	
Leu Trp Leu Arg His Asp Pro Gln Thr Thr Asn Leu Leu Tyr Leu Glu			
35	40	45	
Leu Gly Asp Lys Pro Ala Pro Asn Thr Ser Tyr Val Gly Ile Tyr Ile			
50	55	60	
Leu Ile Ala Val Gly Ala Val Met Met Phe Val Gly Phe Leu Gly Cys			

65	70	75	80
Tyr Gly Ala Ile Gln Glu Ser Gln Cys Leu Leu Gly Thr Phe Phe Thr			
85	90	95	
Cys Leu Val Ile Leu Phe Ala Cys Glu Val Ala Ala Gly Ile Trp Gly			
100	105	110	
Phe Val Asn Lys Asp Gln Ile Ala Lys Asp Val Lys Gln Phe Tyr Asp			
115	120	125	
Gln Ala Leu Gln Gln Ala Val Val Asp Asp Asp Ala Asn Asn Ala Lys			
130	135	140	
Ala Val Val Lys Thr Phe His Glu Thr Val Asp Cys Cys Gly Ser Ser			
145	150	155	160
Thr Leu Ala Ala Leu Thr Thr Ser Val Leu Lys Asn Asn Leu Cys Pro			
165	170	175	
Ser Gly Ser Asn Ile Ile Ser Asn Leu Leu Lys Lys Asp Cys His Gln			
180	185	190	
Lys Ile Asp Asp Phe Phe Ser Gly Lys Leu Tyr Leu Ile Gly Ile Ala			
195	200	205	
Ala Ile Val Val Ala Val Ile Met Ile Phe Glu Met Ile Leu Ser Met			
210	215	220	
Val Leu Cys Cys Gly Ile Arg Asn Ser Ser Val Tyr			
225	230	235	
<210> 18			
<211> 236			
<212> PRT			
<213> Mesocricetus auratus			
<400> 18			
Met Gly Val Glu Gly Cys Thr Lys Cys Ile Lys Tyr Leu Leu Phe Val			
1	5	10	15
Phe Asn Phe Val Phe Trp Leu Ala Gly Gly Val Ile Leu Gly Val Ala			
20	25	30	
Leu Trp Leu Arg His Asp Pro Gln Thr Thr Ser Leu Leu Tyr Leu Glu			
35	40	45	
Leu Gly Asp Arg Pro Ala Pro Ser Thr Phe Tyr Val Gly Ile Tyr Ile			
50	55	60	
Leu Ile Ala Val Gly Ala Val Met Met Phe Val Gly Phe Leu Gly Cys			
65	70	75	80
Tyr Gly Ala Ile Gln Glu Ser Gln Cys Leu Leu Gly Thr Phe Phe Thr			

85	90	95
Cys Leu Val Ile Leu Phe Ala Cys Glu Val Ala Ala Gly Ile Trp Gly		
100	105	110
Phe Val Asn Lys Asp Gln Ile Ala Lys Asp Val Lys Gln Phe Tyr Asp		
115	120	125
Gln Ala Leu Gln Gln Ala Val Val Asp Asp Asp Ala Asn Asn Ala Lys		
130	135	140
Ala Val Val Lys Thr Phe His Glu Thr Leu Asn Cys Cys Gly Ser Asn		
145	150	155
Ala Leu Thr Ala Leu Thr Thr Ser Val Leu Lys Asn Ser Leu Cys Pro		
165	170	175
Ser Gly Thr Asn Ile Phe Asn Ser Leu Met Lys Glu Asp Cys His Gln		
180	185	190
Lys Ile Asp Glu Leu Phe Ser Gly Lys Leu Tyr Leu Ile Gly Ile Ala		
195	200	205
Ala Ile Val Val Ala Val Ile Met Ile Phe Glu Met Ile Leu Ser Met		
210	215	220
Val Leu Cys Cys Gly Ile Arg Asn Ser Ser Val Tyr		
225	230	235
<210> 19		
<211> 236		
<212> PRT		
<213> Rattus norvegicus		
<400> 19		
Met Gly Val Glu Gly Cys Thr Lys Cys Ile Lys Tyr Leu Leu Phe Val		
1	5	10
15		
Phe Asn Phe Val Phe Trp Leu Ala Gly Gly Val Ile Leu Gly Val Ala		
20	25	30
Leu Trp Leu Arg His Asp Pro Gln Thr Thr Leu Leu Tyr Leu Glu		
35	40	45
Leu Gly Asp Lys Pro Ala Pro Ser Thr Phe Tyr Val Gly Ile Tyr Ile		
50	55	60
Leu Ile Ala Val Gly Ala Val Met Met Phe Val Gly Phe Leu Gly Cys		
65	70	75
80		
Tyr Gly Ala Ile Gln Glu Ser Gln Cys Leu Leu Gly Thr Phe Phe Thr		
85	90	95
Cys Leu Val Ile Leu Phe Ala Cys Glu Val Ala Ala Gly Ile Trp Gly		

100	105	110
Phe Val Asn Lys Asp Gln Ile Ala Lys Asp Val Lys Gln Phe Tyr Asp		
115	120	125
Gln Ala Leu Gln Gln Ala Val Met Asp Asp Asp Ala Asn Asn Ala Lys		
130	135	140
Ala Val Val Lys Thr Phe His Glu Thr Leu Asn Cys Cys Gly Ser Asn		
145	150	155
Thr Leu Thr Thr Leu Thr Ala Val Leu Arg Asn Ser Leu Cys Pro		
165	170	175
Ser Ser Ser Asn Ser Phe Thr Gln Leu Leu Lys Glu Asp Cys His Gln		
180	185	190
Lys Ile Asp Glu Leu Phe Ser Gly Lys Leu Tyr Leu Ile Gly Ile Ala		
195	200	205
Ala Ile Val Val Ala Val Ile Met Ile Phe Glu Met Ile Leu Ser Met		
210	215	220
Val Leu Cys Cys Gly Ile Arg Asn Ser Ser Val Tyr		
225	230	235
<210> 20		
<211> 236		
<212> PRT		
<213> Mus musculus		
<400> 20		
Met Gly Val Glu Gly Cys Thr Lys Cys Ile Lys Tyr Leu Leu Phe Val		
1	5	10
15		
Phe Asn Phe Val Phe Trp Leu Ala Gly Gly Val Ile Leu Gly Val Ala		
20	25	30
Leu Trp Leu Arg His Asp Pro Gln Thr Thr Ser Leu Leu Tyr Leu Glu		
35	40	45
Leu Gly Asn Lys Pro Ala Pro Asn Thr Phe Tyr Val Gly Ile Tyr Ile		
50	55	60
Leu Ile Ala Val Gly Ala Val Met Met Phe Val Gly Phe Leu Gly Cys		
65	70	75
80		
Tyr Gly Ala Ile Gln Glu Ser Gln Cys Leu Leu Gly Thr Phe Phe Thr		
85	90	95
Cys Leu Val Ile Leu Phe Ala Cys Glu Val Ala Ala Gly Ile Trp Gly		
100	105	110
Phe Val Asn Lys Asp Gln Ile Ala Lys Asp Val Lys Gln Phe Tyr Asp		

115	120	125
Gln Ala Leu Gln Gln Ala Val Met Asp Asp Asp Ala Asn Asn Ala Lys		
130	135	140
Ala Val Val Lys Thr Phe His Glu Thr Leu Asn Cys Cys Gly Ser Asn		
145	150	155
160		
Ala Leu Thr Thr Leu Thr Thr Ile Leu Arg Asn Thr Leu Cys Pro		
165	170	175
Ser Gly Gly Asn Ile Leu Thr Pro Leu Leu Gln Gln Asp Cys His Gln		
180	185	190
Lys Ile Asp Glu Leu Phe Ser Gly Lys Leu Tyr Leu Ile Gly Ile Ala		
195	200	205
Ala Ile Val Val Ala Val Ile Met Ile Phe Glu Met Ile Leu Ser Met		
210	215	220
Val Leu Cys Cys Gly Ile Arg Asn Ser Ser Val Tyr		
225	230	235

<210> 21  
 <211> 236  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: description

<400> 21  
 Met Gly Val Glu Gly Cys Thr Lys Cys Ile Lys Tyr Leu Leu Phe Val  
 1                   5                   10                   15

Phe Asn Phe Val Phe Trp Leu Ala Gly Gly Val Ile Leu Gly Val Ala  
 20                   25                   30

Leu Trp Leu Arg His Asp Pro Gln Thr Thr Asn Leu Leu Tyr Leu Glu  
 35                   40                   45

Leu Gly Asp Lys Pro Ala Pro Asn Thr Phe Tyr Val Gly Ile Tyr Ile  
 50                   55                   60

Leu Ile Ala Val Gly Ala Val Met Met Phe Val Gly Phe Leu Gly Cys  
 65                   70                   75                   80

Tyr Gly Ala Ile Gln Glu Ser Gln Cys Leu Leu Gly Thr Phe Phe Thr  
 85                   90                   95

Cys Leu Val Ile Leu Phe Ala Cys Glu Val Ala Ala Gly Ile Trp Gly  
 100                   105                   110

Phe Val Asn Lys Asp Gln Ile Ala Lys Asp Val Lys Gln Phe Tyr Asp  
115 120 125

Gln Ala Leu Gln Gln Ala Val Val Asp Asp Asp Ala Asn Asn Ala Lys  
130 135 140

Ala Val Val Lys Thr Phe His Glu Thr Leu Asp Cys Cys Gly Ser Ser  
145 150 155 160

Thr Leu Thr Ala Leu Thr Thr Ser Val Leu Lys Asn Asn Leu Cys Pro  
165 170 175

Ser Gly Ser Asn Ile Ile Ser Asn Leu Phe Lys Glu Asp Cys His Gln  
180 185 190

Lys Ile Asp Asp Leu Phe Ser Gly Lys Leu Tyr Leu Ile Gly Ile Ala  
195 200 205

Ala Ile Val Val Ala Val Ile Met Ile Phe Glu Met Ile Leu Ser Met  
210 215 220

Val Leu Cys Cys Gly Ile Arg Asn Ser Ser Val Tyr  
225 230 235